#### 1. Select the correct statement about lipids

- (a) They form essential structural components of cells
- (b) Provide roughly twice the energy as carbohydrates
- (c) Help to maintain body temperature and cushion organs against shocks(d) All of these

# 2. If a pair of electrons is unequally shared between two atoms.... occurs

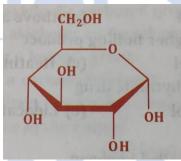
- (a) Non polar covalent bond
- (b) Ionic bond
- (c) Coordinate bond.
- (d) Polar covalent bond
- 3. Which of the following is a protozoan infection that can lead to lesions in the eye if it is acquired congenitally (in utero)
- (a) Malaria
- (b) Giardiasis
- (c) Cryptosporidiosis
- (d) Toxoplasmosis
- 4. Papaverine possesses.....methoxy groups
- (a) 2
- (b) 3
- (c) 4
- (d) 6
- 5. The drug which inhibits the angiotensin-converting enzyme
- (a) Captopril
- (b) Enalapril

- (c) Ramipril
- (d) All of these

#### 6. Dumping is

- (a) Selling of goods to abroad at a price well below the production cost or from the home market price
- (b) The process by which the supply of a manufacture's product remains low in the domestic market, which batches him better price
- (c) Prohibited by regulations of GATT
- (d) All of these

# 7. Following structure of a-D-glucose represents



- (a) Fisher projection
- (b) Saw-horse projection
- (c) Haworth projection
- (d) Newman projection
- 8. Intermediates formed during the biosynthesis of cholesterol is/are
- (a) Mevalonic acid and isopentenyl pyrophosphate
- (b) Mevalonic acid and aldosterone
- (c) Isoprenaline and aldosterone
- (d) Isoprenaline and isopentenyl phosphate

- 9. Cresol with soap solution is a preparation, in which soap is incorporated to
- (a) Impart detergent property
- (b) Improve mutual miscibility of cresol and water by reducing critical solution temperature of cresol water system
- (c) Sustain the germicidal action of cresol
- (d) Improve the stability of cresol
- 10. Number of double bonds in molecule is estimated by
- (a) IR
- (b) NMR
- (c) ESR
- (d) UV
- 11. Mode of action of leflunomide
- (a) Inhibits calcineurin
- (b) Inhibit purine synthesis
- (c) Inhibit cytokine gene expression
- (d) Inhibit pyrimidine synthesis
- 12. Which of the following vitamin secreted in the urine
- (a) Vitamin A
- (b) Vitamin D
- (c) Vitamin E
- (d) Vitamin B
- 13. An optically active compound that rotates plane polarized light in a counterclockwise direction called
- (a) Diastereomer
- (b) Mesomer

- (c) Dextrorotatory
- (d) Levorotatory
- 14. Which of the following is an alkane which can exhibit optical activity
- (a) Neopentane
- (b) Isopentane
- (c) 3-Methylpentane
- (d) 3-Methylhexane
- 15. H,C-CH,Br will show NMR signals
- (a) 2
- (b) 3
- (c) 5
- (d) None of these
- 16. Number of stereoisomers of glucose is
- (a) 4
- (b) 8
- (c) 16
- (d) None of these
- 17. Cori's cycle transfers
- (a) Glucose from muscles to liver
- (b) Lactate from muscles to liver
- (c) Lactate from liver to muscles
- (d) Pyruvate from liver to muscles
- 18. Demographic divide refers to a rise in population
- (a) Between the age group of 1 to 14 years
- (b) Between the age group of 15 to 64 years

- (c) Between the age group of 65 to 74 years
- (d) Above 74 years
- 19. Alpha anomers are isomers of the form
- (a) Cis
- (b) Trans
- (c) Both (a) and (b)
- (d) None of these
- 20. The major site of urea synthesis is
- (a) Brain
- (b) Kidneys
- (c) Liver
- (d) Muscles
- 21. How many phenylhydrazine consume during the formation of Glucosazone
- (a) One Molecule
- (b) Two molecules
- (c) Three molecules
- (d) It does not depends on number of phenylhydrazine
- 22. Sulphur-containing amino acid is
- (a) Tyrosine
- (b) Chondroitin sulphate
- (c) Homocysteine
- (d) Tryptophan
- 23. Most electronegative atom
- (a) Nitrogen
- (b) Chlorine

- (c) Oxygen
- (d) Bromine
- 24. Rajesh took loan of 12,000 rupees. After 5 years he paid 3600 rupees as interest. What is the rate of interest per annum
- (a) 6%
- (b) 3%
- (c) 8%
- (d) 9.5 %
- 26. Sulfasalazine is combination of
- (a) Sulphapyridine & aminosalicylate
- (b) Trimethoprim & sulfamethoxazole
- (c) Sulphapyridine & sulfamethoxazole
- (d) Sulfamethoxazole & aminosalicylate
- 27. How many ATP are formed from one molecule of glucose during glycolysis in absence of oxygen
- (a) 2ATP
- (b) 3ATP
- (c) 6ATP
- (d) 8ATP
- 28. Impurity detection method is
- (a) GC-MS
- (b) Optical densitometer
- (c) Mass Spectroscopy
- (d) None of these
- 29. Water solubility of the drug is due
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- (a)-SH group
- (b) Lipophilic group
- (c)-OH group
- (d) All of these

# 30. The drug which shows dose dependent pharmacokinetics follows

- (a) Linear Pharmacokinetics
- (b) Non-linear pharmacokinetics
- (c) Both (a) and (b)
- (d) Non compartmental pharmacokinetics

#### 31. URL means

- (a) Universal research list resource locater
- (b) Universal
- (c) Universal resource list
- (d) Uniform resource bocater

# **32. Dipteryx Odorata is biological** source of

- (a) Buck wheat
- (b) Tonka bean
- (c) Ginko bibba
- (d) Sylimarin

# 33. In TCA cycle which of the following combines with OAA (oxaloacetic acid) to complete the reaction

- (a) Acetyl CoA
- (b) Succinyl CoA
- (c) Malonyl CoA
- (d) All of these
- 34. Pyrogens are

- (a) Derivatives of pyrogallo!
- (b) Used as preservatives in parenteral solutions
- (c) Products of the growth of microorganisms
- (d) Released by the immune system in response to bacterial infection

# 35. Which of the following antianginal agents is a calcium channel blocker

- (a) Nitroglycerin
- (b) Dipyridamole
- (c) Minoxidil
- (d) Nifedipine

# **36. Which is the characteristic reaction of Benzene**

- (a) Nucleophilic substitution
- (b) Electrophilic substitution
- (c) Addition
- (d) None of these
- 37. In clinical trial study, 100-1000 individuals are used in which phase
- (a) Phase 3
- (b) Phase 2
- (c) Phase 1
- (d) Phase 4
- 38. If our eyes travel in counter clockwise direction from the ligand of highest priority to the ligand of lowest priority, the configuration is
- (a)R-Configuration
- (b)S-Configuration
- $\hbox{(c)$E-Configuration}\\$

- (d)C-Configuration
- 39. Nuclear magnetic moment is not shown by
- (a) 13C
- (b) 1H
- (C) 160
- (D) 15N
- 40. LOD means
- (a) Line of detection
- (b) line on detection
- (c) Limit on detection
- (d) Limits of detection
- 41. One of the following determine the rate of reaction
- (a) All
- (b) E
- (c) Both (a) and (b)
- (d) AP
- 42. All persons licensed to manufacture of drugs are required to keep samples from the date of expiry under Drugs & Cosmetics Act from ebatch for
- (a) 3 years
- (b) 3 month
- (c) 5 years
- (d) 10 years
- 43. Bacteriostatic effect is
- (a) Inhibition of bacterial cell division

- (b) Inhibition of young bacterial cells growth
- (c) Destroying of bacterial cells
- (d) Formation of bacterial L-form
- 44. Which is not a brand of Dabur
- (a) Amla oil
- (b) Odomos
- (c) Nihar
- (d) Meswak
- 45. Software Gaussian is used for
- (a) For sequence alignment of proteins
- (b) For statistical calculations
- (c) For quantum chemistry calculations
- (d) None of these
- 46. Racemization is related to
- (a) E1
- (b) EZ
- (c) SNI
- (d) SN<sup>2</sup>
- 47. Two monosaccharides differs from each other in their configuration around a single carbon other than anomeric carbon is called
- (a) Anomers
- (b) Epimers
- (c) Enantiomers
- (d) Diastereom
- 48. Antibiotic inhibiting bacterial RNA synthesis is
- (a) Erythromycin
- (b) Rifampin

- (c) Chloramphenicol
- (d) Imipenem

#### 49. Common name of H,10, is acid

- (a) Orthoperiodic
- (b) Meta periodic acid
- (c) Periodic acid
- (d) All of these

## 50. Method for converting an aklose into another akdose containing one less carbon is

- (a) Ruff degradation
- (b) Kiliani fischer synthesis
- (c) PAS
- (d) None of these

